

NATIONAL AIR INTELLIGENCE CENTER



FREQUENCIES USED WITH SATELLITES (PART 1)



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Chinese Space Science and Technology (Zhongguo Kongjian Kexue Jishu)

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FREQUENCIES USED WITH SATELLITES (PART 1)

Classified According to the Satellites' Services

**From Article 8 of the International
Telecommunication Union Regulations**

(Romanized Title: *Weixing Yong Pinlü*)

By Chen Daoming (China Space Science and Technology Institute,
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The International Telecommunication Union has designated operating frequencies for satellites. They are scattered in Article 8 of the Radio Regulations, where it is inconvenient to look them up. In light of this, the author has compiled this material from the Radio Regulations which were revised at the 1992 World Administrative Radio Conference and from the European Space Bureau's "Satellite Frequencies" data, and has classified it according to satellite services. However, the information here does not include frequencies shared between satellites and surface systems.

According to the Radio Regulations, radio services are mainly divided into primary, secondary, and footnote services of relatively large limited use. The world is divided into three regions, and China is in Region 3.

There are thirteen satellite services included in this material: (1). Space Operations; (2). Space Research; (3). Intersatellite; (4). Broadcasting Satellite; (5). Fixed Satellite; (6). Mobile Satellite (Land Mobile, Maritime Mobile, Aeronautical Mobile); (7). Earth Exploration Satellite; (8). Meteorological Satellite; (9). Radiodetermination Satellite; (10). Radio Positioning Satellite; (11). Radionavigation Satellite; (12). Standard Frequency and Time Signal Satellite; (13). Amateur Satellite.

This material utilizes some abbreviations:

No marking – Primary service;

S – Secondary service;

S 1, 2– Secondary service applicable only in regions 1 and 2;

(XXX) – Footnote allocation service; XXX is the footnote number;

(XXX) 1, 3 – Footnote allocation service applicable only in regions 1 and 3;

(XXX) cc– Footnote allocation service for a certain country;

(XXX) cc 3 – Footnote allocation service for a certain country in Region 3;

(S-E) – Space-to-Earth;

(E-S) – Earth-to-space;

(S-S) – Space-to-space;

Passive – Passive satellite reception;

Active – Active satellite reception.

1. Space Operations Service

136–137 MHz (595) S(S-E)

137–138 MHz (S-E)

148–149.9 MHz (607) (E-S) Must comply with Article 14 regulations¹

¹ Original text in ITU Regulations: "...subject to agreement obtained under the procedure set forth in Article 14."

163–167	MHz	(616) Used by China. (S-E) Must comply with Article 14 regulations
174–184	MHz	(619) Used by China. (S-E) Must comply with Article 14 regulations
267–272	MHz	S (S-E)
272–273	MHz	(S-E)
400.15–401	MHz	S (S-E)
401–402	MHz	(S-E)
433.75–434.25	MHz	(663) 2 cc (E-S); 1,2 cc S(E-S)
449.25–450.25	MHz	(668) (E-S) Must comply with Article 14 regulations
470–485	MHz	(673) Used by China. (S-E) Must comply with Article 14 regulations
549.75–550.25	MHz	(679) Used by India S(S-E)
1525–1535	MHz	(S-E)
2025–2110	MHz	(E-S and S-S) Must comply with Res. Com. 4/3 (750A) Non-fixed satellite network must have no interference
2200–2290	MHz	(S-E and S-S) Must comply with Res. Com. 4/3 Non-fixed satellite network must have no interference
7125–7155	MHz	2 (E-S) Must comply with Article 14 regulations
2182	kHz	(501) Manned spacecraft distress and rescue. Must comply with Articles 38 and N38
2501–2502	kHz	S
3023	kHz	(501) Manned spacecraft distress and rescue. Must comply with Articles 38 and N38
5003–5005	kHz	S
5680	kHz	(501) Manned spacecraft distress and rescue. Must comply with Articles 38 and N38
8364	kHz	(501) Manned spacecraft distress and rescue. Must comply with Articles 38 and N38
10,003	kHz	(501) Manned spacecraft distress and rescue. Must comply with Articles 38 and N38
10,003–10,005	kHz	S
12,150	kHz	(501) Manned spacecraft distress and rescue. Must comply with

		Articles 38 and N38
14,993	kHz	(501) Manned spacecraft distress and rescue. Must comply with Articles 38 and N38
15,005–15,010	kHz	S
18,052–18,068	kHz	S
19,990–19,995	kHz	S
19,993	kHz	(501) Manned spacecraft distress and rescue. Must comply with Articles 38 and N38
25,005–25,010	kHz	S
30.005–30.01	MHz	
39.986–40.02	MHz	S
40.98–41.015	MHz	S
136–137	MHz	(595) S (S-E)
137–138	MHz	(S-E)
138–143.6	MHz	S (S-E) 2, 3; (600) 1 cc
143.6–143.65	MHz	(S-E)
143.65–144	MHz	S (S-E) 2, 3; (600) 1 cc

(To be continued.)

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